

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended) A composition comprising a protein in crystalline form wherein the protein consists of ~~SEQ ID NO:3~~ SEQ ID NO:3, and wherein the protein crystal has a crystal lattice in a $P2_12_12_1$ space group and unit cell dimensions, +/- 5%, of $a=70.31\text{\AA}$ $b=152.60\text{\AA}$ and $c=214.65\text{\AA}$.
2. (Previously presented) A composition according to claim 1 wherein the protein is present in the protein crystal as a dimer.
3. (Cancelled)
4. (Previously presented) A composition according to claim 1 wherein the protein crystal diffracts X-rays for a determination of structure coordinates to a resolution less than 3.0 Angstroms.
- 5 -8. (Cancelled)
9. (Currently amended) A method comprising:
forming a crystallization volume comprising a precipitate solution and a protein that consists of ~~SEQ ID NO:3~~ SEQ ID NO:3, and wherein the protein crystal has a crystal lattice in a $P2_12_12_1$ space group and unit cell dimensions, +/- 5%, of $a=70.31\text{\AA}$ $b=152.60\text{\AA}$ and $c=214.65\text{\AA}$; and
storing the crystallization volume under conditions suitable for crystal formation until a crystal is formed ~~forming a crystalline form of the protein in the crystallization volume~~.
10. (Previously presented) A method according to claim 9 wherein the protein is present in the protein crystal as a dimer.
11. (Cancelled)

12. (Previously presented) A method according to claim 9 wherein the protein crystal diffracts X-rays for a determination of structure coordinates to a resolution less than 3.0 Angstroms.

13-14. (Canceled)

15. (Previously presented) A method according to claim 9, the method further comprising:
diffracting the protein crystal to produce a diffraction pattern; and
solving the structure of the protein from the diffraction pattern.

16. (Cancelled)

17. (Currently amended) A ~~composition comprising~~ a protein consisting of ~~SEQ ID No. 3~~
SEQ ID NO:3.

18. (Withdrawn) A method according to claim 15, the method further comprising:
performing rational drug design using the solved structure; and
identifying an entity that associates with the protein.

19. (Withdrawn) A method according to claim 18 wherein the protein is present in the protein crystal as a dimer.

20-21. (Canceled)

22. (Withdrawn) A method according to claim 18, the method further comprising selecting one or more entities based on the rational drug design and contacting the selected entities with the protein.

23. (Withdrawn) A method according to claim 18, the method further comprising measuring an activity of the protein when contacted with the one or more entities.

24. (Withdrawn) A method according to claim 18, the method further comprising comparing activity of the protein in a presence of and in the absence of the one or more entities; and selecting entities where activity of the protein changes depending whether a particular entity is present.

25. (Withdrawn) A method according to claim 18, the method further comprising contacting cells expressing the protein with the one or more entities and detecting a change in a phenotype of the cells when a particular entity is present.

26. (New) A protein consisting of residues 27-760 of SEQ ID NO:1.

27. (New) A composition comprising a protein in crystalline form wherein the protein consists of residues 27-760 of SEQ ID NO:1, and wherein the protein crystal has a crystal lattice in a $P2_12_12_1$ space group and unit cell dimensions, $\pm 5\%$, of $a=70.31\text{\AA}$ $b=152.60\text{\AA}$ and $c=214.65\text{\AA}$.

28. (New) A method comprising:
forming a crystallization volume comprising a precipitate solution and a protein that consists of residues 27-760 of SEQ ID NO:1, and wherein the protein crystal has a crystal lattice in a $P2_12_12_1$ space group and unit cell dimensions, $\pm 5\%$, of $a=70.31\text{\AA}$ $b=152.60\text{\AA}$ and $c=214.65\text{\AA}$; and
storing the crystallization volume under conditions suitable for crystal formation until a crystal is formed.